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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,341	10/808,341 03/25/2004		Hyun-kyu Yun	101-1019	5441
38209	7590	11/30/2006		· EXAMINER	
STANZIO		•	CHOI, WOO H		
919 18TH S SUITE 440	TREET, 1	N.W.	ART UNIT	PAPER NUMBER	
WASHING	TON, DO	20006 -	2189		
				DATE MAILED: 11/30/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)	Applicant(s)				
Office Action Summary			,341	YUN ET AL.					
			ner	Art Unit					
		Woo H.		2189					
Period fo	The MAILING DATE of this commun or Reply	nication appears on	the cover sheet v	vith the correspondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	Responsive to communication(s) file	ed on 07 Septembe	r 2006.						
·	· ·	2b)⊠ This action is							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠	Claim(s) 1-27 is/are pending in the	application.							
	4a) Of the above claim(s) <u>7-10</u> is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
·	Claim(s) is/are rejected.								
·	Claim(s) <u>1-6,11-27</u> are subject to restriction and/or election requirement.								
Applicati	on Papers								
g)□ .	The specification is objected to by the	e Evaminer							
	9) The specification is objected to by the Examiner.								
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected t	•		• ` '	•				
''/-	The bath of declaration is objected t	o by the Examiner.	Note the attache	d Office Action of John P	10-152.				
Priority u	inder 35 U.S.C. § 119								
	Acknowledgment is made of a claim ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority		•	§ 119(a)-(d) or (f).					
	2. Certified copies of the priority	documents have b	een received in a	Application No					
	3. Copies of the certified copies	of the priority docu	ments have bee	n received in this Nationa	al Stage				
	application from the International Bureau (PCT Rule 17.2(a)).								
* S	* See the attached detailed Office action for a list of the certified copies not received.								
A44- 1	w-1								
Attachment	t(s) e of References Cited (PTO-892)		4) 🔲 Intonúcio	Summary (PTO-413)					
	e of References Cited (F1O-692) e of Draftsperson's Patent Drawing Review (I	PTO-948)		(s)/Mail Date					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO/SB/08)	,	5) D Notice of	Informal Patent Application					
Pape	r No(s)/Mail Date		6)	 ·					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1 6 and 11 16, drawn to a method and apparatus in a DSP architecture that comprises a three by three matrix of memory elements with a computing element in the middle, classified in class 711, subclass 173.
 - II. Claims 19 23 and 27, drawn to an arrangement of memories that are of one type of device and plural calculation units that are of different type of device having a plurality of connections to the memory devices, classified in class 712, subclass 11.
 - III. Claims 24 26, drawn to a DSP architecture with plural image segmentation units, classified in class 345, subclass 502.
- 2. Inventions I, II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination I has utility that is separate from subcombination II such as in a parallel processing matrix computer where all processing elements are of the same type. Subcombinations I and II can be used in applications other than image processing or image segmentation as required for subcombination III. They can be used in any type of multiprocessing system. Subcombination II is not required to be configured in a matrix arrangement that is required for subcombination I. See MPEP § 806.05(d).

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The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

4. Because Applicant already received an action on the merit, the next office action may be final.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Woo H. Choi whose telephone number is (571) 272-4179. The

examiner can normally be reached on M-F, 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Reginald Bragdon can be reached on (571) 272-4204. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Woo H Choi

November 24, 2006

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